

**WHAT IS CLAIMED IS:**

- 1           1.     A communications device comprising:  
2           a logging module, wherein  
3                 the logging module is configured to communicate information regarding a  
4                 change to a configuration of a subsystem of the communications  
5                 device.
  
- 1           2.     The communications device of claim 1, wherein  
2           the communications device further comprises the subsystem; and  
3           the logging module is coupled to the subsystem.
  
- 1           3.     The communications device of claim 2, wherein  
2           the logging module is further configured to detect the change.
  
- 1           4.     The communications device of claim 3, wherein  
2           the logging module is further configured to broadcast a data packet using a logging  
3                 module network address and a logging module communications protocol.
  
- 1           5.     The communications device of claim 4, wherein  
2           the logging module is further configured to restrict a change to a configuration of the  
3                 logging module by the subsystem.
  
- 1           6.     The communications device of claim 4, wherein  
2           the logging module is further configured to communicate the change to the  
3                 configuration of the subsystem by broadcasting the data packet, wherein the  
4                 data packet indicates the change to the configuration of the subsystem.
  
- 1           7.     The communications device of claim 6, wherein  
2           the logging module is configured to broadcast the change to the configuration of the  
3                 subsystem to at least one security monitor coupled to the subsystem via a  
4                 network.

1           8.     The communications device of claim 7, wherein  
2           the security monitor is configured to set the communications device to an  
3           “untrustworthy” status in response to receiving the change to the configuration  
4           of the subsystem.

1           9.     The communications device of claim 8, wherein  
2           the security monitor is configured to disconnect the communications device from the  
3           network in response to the communications device being set to the  
4           “untrustworthy” status.

1           10.    The communications device of claim 4, wherein  
2           the logging module is further configured to restrict the subsystem from broadcasting  
3           using the logging module network address and the logging module  
4           communications protocol.

1           11.    The communications device of claim 4, wherein  
2           the logging module is configured to broadcast a series of data packets,  
3           each of the data packets comprises an index number, and  
4           each of the index numbers is taken from a sequence of numbers.

1           12.    The communications device of claim 4, wherein  
2           the logging module is configured to communicate the change to the configuration of  
3           the subsystem when a condition is satisfied.

1           13.    The communications device of claim 12, wherein  
2           the logging module is configured to communicate the change to the configuration of  
3           the subsystem when an amount of the change is above a certain threshold.

1           14.    The communications device of claim 12, wherein  
2           the logging module is configured to communicate the change to the configuration of  
3           the subsystem when a criticality of the change is above a certain threshold.

1           15.    The communications device of claim 12, wherein  
2           the logging module is configured to communicate the change to the configuration of  
3           the subsystem periodically.

1           16.    The communications device of claim 3, wherein  
2           the subsystem is a communications interface.

1           17.    The communications device of claim 16, wherein  
2           the logging module is further configured to restrict a change to a configuration of the  
3           logging module by the communications interface.

1           18.    The communications device of claim 16, wherein  
2           the logging module is further configured to broadcast using the communications  
3           interface using a logging module network address and a logging module  
4           communications protocol.

1           19.    The communications device of claim 18, wherein  
2           the logging module is further configured to restrict a change to a configuration of the  
3           logging module by the communications interface.

1           20.    The communications device of claim 18, wherein  
2           the logging module is configured to communicate the change to the configuration of  
3           the communications interface by broadcasting the change to the configuration  
4           of the communications interface.

1           21.    The communications device of claim 20, wherein  
2           the logging module is configured to broadcast the change to the configuration of the  
3           communications interface to at least one security monitor coupled to the  
4           communications interface via a network.

1           22.    The communications device of claim 21, wherein  
2           the security monitor is configured to set the communications device to an  
3           “untrustworthy” status in response to receiving the change to the configuration  
4           of the communications interface.

1           23.    The communications device of claim 22, wherein  
2           the security monitor is configured to disconnect the communications device from the  
3           network in response to the communications device being set to the  
4           “untrustworthy” status.

1           24.    The communications device of claim 18, wherein  
2           the logging module is further configured to restrict the communications interface from  
3           broadcasting using the logging module network address and the logging  
4           module communications protocol.

1           25.    The communications device of claim 24, wherein  
2           the logging module is configured to restrict the communications interface from  
3           broadcasting a change to the configuration of the communications interface  
4           using the logging module network address and the logging module  
5           communications protocol.

1           26.    The communications device of claim 18, wherein  
2           the logging module is configured to broadcast using a series of data packets,  
3           each of the data packets comprises an index number, and  
4           each of the index numbers is taken from a sequence of numbers.

1           27.    The communications device of claim 18, wherein  
2           the logging module is configured to communicate the change to the configuration of  
3           the communications interface when a condition is satisfied.

1 28. The communications device of claim 27, wherein  
2 the logging module is configured to communicate the change to the configuration of  
3 the communications interface when an amount of the change is above a certain  
4 threshold.

1 29. The communications device of claim 27, wherein  
2 the logging module is configured to communicate the change to the configuration of  
3 the communications interface when a criticality of the change is above a  
4 certain threshold.

1 30. The communications device of claim 27, wherein  
2 the logging module is configured to communicate the change to the configuration of  
3 the communications interface periodically.

1 31. The communications device of claim 3, wherein  
2 the logging module is configured to communicate the change to the configuration of  
3 the subsystem by broadcasting the change to the configuration of the  
4 subsystem.

1 32. The communications device of claim 31, wherein  
2 the logging module is configured to broadcast the change to the configuration of the  
3 subsystem to at least one security monitor coupled to the subsystem via a  
4 network.

1 33. The communications device of claim 32, wherein  
2 the security monitor is configured to set the communications device to an  
3 “untrustworthy” status in response to receiving the change to the configuration  
4 of the subsystem.

1 34. The communications device of claim 33, wherein  
2 the security monitor is configured to disconnect the communications device from the  
3 network in response to the communications device being set to the  
4 “untrustworthy” status.

1 35. The communications device of claim 3, wherein  
2 the logging module is further configured to broadcast the change to a security monitor.

1 36. The communications device of claim 35, wherein  
2 the logging module is configured to communicate the change when a condition is  
3 satisfied.

1 37. The communications device of claim 36, wherein  
2 the logging module is configured to communicate the change when an amount of the  
3 change is above a certain threshold.

1 38. The communications device of claim 36, wherein  
2 the logging module is configured to communicate the change when a criticality of the  
3 change is above a certain threshold.

1 39. The communications device of claim 36, wherein  
2 the logging module is configured to communicate the change periodically.

1 40. The communications device of claim 36, wherein  
2 the subsystem is a communications interface.

1 41. A method comprising:  
2 detecting a change in a configuration of a subsystem of a communications device; and  
3 communicating information regarding the change.

1 42. The method of claim 41, further comprising:  
2 determining the configuration.

1           43.     The method of claim 42, wherein  
2           the information comprises an indication of an occurrence of the change.

1           44.     The method of claim 42, wherein  
2           the information comprises a change made to the configuration.

1           45.     The method of claim 42, further comprising:  
2           executing a process in a logging module of the communications device, wherein the  
3           logging process performs the detecting the change and the communicating  
4           information regarding the change.

1           46.     The method of claim 45, wherein  
2           the subsystem is a communications interface, and  
3           the executing the process in the logging module comprises executing a logging  
4           process.

1           47.     The method of claim 46, wherein the executing a logging process comprises:  
2           executing a logging process in the logging module of the communications device  
3           according to a configuration of the logging module.

1           48.     The method of claim 46, wherein the communicating comprises:  
2           broadcasting the information.

1           49.     The method of claim 48, wherein the broadcasting is performed using the  
2           communications interface.

1           50.     The method of claim 49, wherein the broadcasting is performed using:  
2           a logging module network address, and  
3           a logging module communications protocol.

1           51.     The method of claim 49, wherein the broadcasting comprises:  
2           broadcasting the information to a security monitoring process executing on a security  
3           monitor coupled to the communications interface via a network.

1           52.     The method of claim 51, wherein the security monitoring process comprises:  
2           setting the communications device to an “untrustworthy” status in response to  
3           receiving the change to the configuration of the communications interface.

1           53.     The method of claim 52, wherein the security monitoring process comprises:  
2           disconnecting the communications device from the network in response to the  
3           communications device being set to the “untrustworthy” status.

1           54.     The method of claim 48, wherein the broadcasting comprises:  
2           sending a series of data packets, wherein  
3           each of the data packets comprises an index number and  
4           each of the index numbers is taken from a sequence of numbers.

1           55.     The method of claim 48, wherein the communicating comprises:  
2           indicating the change to the configuration of the communications interface when a  
3           condition is satisfied.

1           56.     The method of claim 55, wherein the communicating comprises:  
2           indicating the change to the configuration of the communications interface when an  
3           amount of the change is above a certain threshold.

1           57.     The method of claim 55, wherein the communicating comprises:  
2           indicating the change to the configuration of the communications interface when a  
3           criticality of the change is above a certain threshold.

1           58.     The method of claim 55, wherein the communicating is performed  
2           periodically.

1           59.     The method of claim 46, further comprising:  
2           executing at least one process in the subsystem according to the configuration of the  
3           subsystem.



1           60.     The method of claim 59, wherein the executing the at least one process in the  
2 communications interface comprises:  
3           executing a communications process.

1           61.     The method of claim 60, wherein the executing the logging process further  
2 comprises:  
3           restricting a change to a configuration of the logging module by the communications  
4           process.

1           62.     The method of claim 60, wherein the executing the logging process further  
2 comprises:  
3           broadcasting through the communications interface using a logging module network  
4           address and a logging module communications protocol.

1           63.     The method of claim 62, wherein the executing the logging process further  
2 comprises:  
3           restricting a change to a configuration of the logging module by the communications  
4           process.

1           64.     The method of claim 62, wherein the executing the logging process further  
2 comprises:  
3           restricting the communications process from broadcasting using the logging module  
4           network address and the logging module communications protocol.

1           65.     The method of claim 64, wherein the restricting comprises:  
2           restricting the communications interface from broadcasting a change to the  
3           configuration of the communications interface using the logging module  
4           network address and the logging module communications protocol.

1           66.     The method of claim 42, wherein the communicating comprises:  
2           broadcasting the information.

1           67.     The method of claim 66, wherein the broadcasting is performed using the  
2 subsystem.

1           68.     The method of claim 67, wherein the broadcasting is performed using:  
2 a logging module network address, and  
3 a logging module communications protocol.

1           69.     The method of claim 68, wherein the broadcasting comprises:  
2 broadcasting the change to the configuration of the subsystem to a security monitoring  
3 process executing on a security monitor coupled to the communications device  
4 via a network.

1           70.     The method of claim 69, wherein the security monitoring process comprises:  
2 setting the communications device to an “untrustworthy” status in response to  
3 receiving the change to the configuration of the subsystem.

1           71.     The method of claim 69, wherein the security monitoring process comprises:  
2 disconnecting the communications device from the network in response to the  
3 communications device being set to the “untrustworthy” status.

1           72.     The method of claim 66, wherein the communicating comprises:  
2 indicating the change to the configuration of the subsystem when a condition is  
3 satisfied.

1           73.     The method of claim 72 wherein the communicating is performed periodically.

1           74.     A communications device comprising:  
2 a subsystem;  
3 a processor, coupled to the subsystem;  
4 computer readable medium coupled to the processor; and  
5 computer code, encoded in the computer readable medium, configured to cause the  
6 processor to:  
7 detect a change in a configuration of the subsystem; and

8                   communicate information regarding the change.

1           75.    The communications device of claim 74, wherein the computer code is further  
2 configured to cause the processor to:  
3           determine the configuration.

1           76.    The communications device of claim 75, wherein the computer code  
2 configured to cause the processor to communicate the information regarding the change is  
3 further configured to cause the processor to:  
4           broadcast the information.

1           77.    The communications device of claim 76, wherein the computer code  
2 configured to cause the processor to communicate the information regarding the change is  
3 further configured to cause the processor to:  
4           indicate the change to the configuration of the subsystem when a condition is  
5           satisfied.

1           78.    The communications device of claim 76, wherein the computer code  
2 configured to cause the processor to communicate broadcast the information is configured to  
3 use:  
4           a logging module network address, and  
5           a logging module communications protocol.

1           79.    The communications device of claim 78, wherein the computer code  
2 configured to cause the processor to communicate broadcast the information is further  
3 configured to cause the processor to:  
4           broadcast the change to the configuration of the subsystem to a security monitoring  
5           process executing on a security monitor coupled to the communications device  
6           via a network.

1           80.    The communications device of claim 75, wherein the computer code is further  
2 configured to cause the processor to:  
3           execute a process in a logging module of the communications device, wherein the  
4           logging process performs the detecting the change and the communicating  
5           information regarding the change.

1           81.    The communications device of claim 80, wherein the computer code  
2 configured to cause the processor to execute the process in the logging module of the  
3 communications device is further configured to cause the processor to:  
4           execute a logging process, wherein  
5           the subsystem is a communications interface.

1           82.    The communications device of claim 81 wherein the computer code  
2 configured to cause the processor to communicate the information regarding the change is  
3 further configured to cause the processor to:  
4           broadcast the information.

1           83.    The communications device of claim 82, wherein the computer code  
2 configured to cause the processor to communicate the information regarding the change is  
3 further configured to cause the processor to:  
4           indicate the change to the configuration of the communications interface when a  
5           condition is satisfied.

1           84.    The communications device of claim 81, wherein the computer code is further  
2 configured to cause the processor to:  
3           execute at least one process in the subsystem according to the configuration of the  
4           subsystem.

1           85.     The communications device of claim 84, wherein the computer code  
2 configured to cause the processor to execute the at least one process in the subsystem  
3 according to the configuration of the subsystem is further configured to cause the processor  
4 to:  
5           execute a communications process.

1           86.     The communications device of claim 85, wherein the computer code  
2 configured to cause the processor to execute the logging process is further configured to cause  
3 the processor to:  
4           broadcast through the communications interface using a logging module network  
5           address and a logging module communications protocol.

1           87.     A computer program product comprising:  
2           a first set of instructions, executable on a computer system, configured to detect a  
3           change in a configuration of a subsystem of a communications device;  
4           a second set of instructions, executable on the computer system, configured to  
5           communicate information regarding the change; and  
6           computer readable media, wherein the computer program product is encoded in the  
7           computer readable media.

1           88.     The computer program product of claim 87, further comprising:  
2           a third set of instructions, executable on the computer system, configured to determine  
3           the configuration;

1           89.     The computer program product of claim 88, wherein the second set of  
2 instructions comprises:  
3           a first subset of instructions, executable on the computer system, configured to  
4           broadcast the information.

1           90.    The computer program product of claim 89, wherein the second set of  
2 instructions comprises:  
3           a second subset of instructions, executable on the computer system, configured to  
4           indicate the change to the configuration of the subsystem when a condition is  
5           satisfied.

1           91.    The computer program product of claim 89, wherein the second set of  
2 instructions use:  
3           a logging module network address, and  
4           a logging module communications protocol.

1           92.    The computer program product of claim 91, wherein the second set of  
2 instructions comprises:  
3           a third subset of instructions, executable on the computer system, configured to  
4           broadcast the change to the configuration of the subsystem to a security  
5           monitoring process executing on a security monitor coupled to the  
6           communications device via a network.

1           93.    The computer program product of claim 91, further comprising:  
2           a fourth set of instructions, executable on the computer system, configured to execute  
3           a process in a logging module of the communications device, wherein the  
4           logging process performs the detecting the change and the communicating  
5           information regarding the change.

1           94.    The computer program product of claim 93, wherein the fourth set of  
2 instructions comprises:  
3           a first subset of instructions, executable on the computer system, configured to  
4           execute a logging process, wherein  
5           the subsystem is a communications interface.

1           95.    The computer program product of claim 94, wherein the second set of  
2 instructions comprises:  
3           a first subset of instructions, executable on the computer system, configured to  
4           broadcast the information.

1           96.    The computer program product of claim 95, wherein the second set of  
2 instructions comprises:  
3           a second subset of instructions, executable on the computer system, configured to  
4           indicate the change to the configuration of the subsystem when a condition is  
5           satisfied.

1           97.    The computer program product of claim 94, further comprising:  
2 a fifth set of instructions, executable on the computer system, configured to execute at  
3           least one process in the subsystem according to the configuration of the  
4           subsystem.

1           98.    The computer program product of claim 97, wherein the fifth set of  
2 instructions comprises:  
3           a first subset of instructions, executable on the computer system, configured to  
4           execute a communications process.

1           99.    The computer program product of claim 98, wherein the first subset of the  
2 fourth set of instructions comprises:  
3           a first sub-subset of instructions, executable on the computer system, configured to  
4           broadcast through the communications interface using a logging module  
5           network address and a logging module communications protocol.

1           100.   An apparatus comprising:  
2 means for detecting a change in a configuration of a subsystem of a communications  
3           device; and  
4           means for communicating information regarding the change.

1           101.    The apparatus of claim 100, further comprising:  
2           means for determining the configuration.

1           102.    The apparatus of claim 101, wherein the means for communicating comprises:  
2           means for broadcasting the information.

1           103.    The apparatus of claim 102, wherein the means for communicating comprises:  
2           means for indicating the change to the configuration of the subsystem when a  
3                        condition is satisfied.

1           104.    The apparatus of claim 102, wherein the means for broadcasting is configured  
2    to use:  
3           a logging module network address, and  
4           a logging module communications protocol.

1           105.    The apparatus of claim 104, wherein the means for broadcasting comprises:  
2           means for broadcasting the change to the configuration of the subsystem to a security  
3                        monitoring process executing on a security monitor coupled to the  
4                        communications device via a network.

1           106.    The apparatus of claim 101, further comprising:  
2           means for executing a logging process in a logging module of the communications  
3                        device, wherein the logging process performs the detecting the change and the  
4                        communicating information regarding the change.

1           107.    The apparatus of claim 106, wherein  
2           the subsystem is a communications interface, and  
3           the means for executing the process in the logging module comprises  
4                        means for executing a logging process.

1           108.    The apparatus of claim 107, wherein the means for communicating comprises:  
2           means for broadcasting the information.



1           109.    The apparatus of claim 108, wherein the means for communicating comprises:  
2           means for indicating the change to the configuration of the communications interface  
3           when a condition is satisfied.

1           110.    The apparatus of claim 107, further comprising:  
2           means for executing at least one process in the subsystem according to the  
3           configuration of the subsystem.

1           111.    The apparatus of claim 110, wherein the means for executing the at least one  
2   process in the communications interface comprises:  
3           means for executing a communications process.

1           112.    The apparatus of claim 111, wherein the means for executing the logging  
2   process further comprises:  
3           means for broadcasting through the communications interface using a logging module  
4           network address and a logging module communications protocol.